BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Subsidiary Diploma in Applied Science Pearson BTEC International Level 3 Foundation Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Environmental Science Pearson BTEC International Level 3 Extended Diploma in Applied Science Pearson BTEC International Level 3 Extended Diploma in Environmental Science
Unit number and title	**Unit 28: Sustainable Energy**
Learning aim(s)	**A:** Explore the environmental impact of continued use of fossil fuels
Assignment title	**Impact of use of fossil fuels**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You are on work experience with a green energy technology company. In response to the large number of extreme weather events being seen locally, nationally and internationally, you have been asked to provide a factual report, blog, information leaflet, to inform the public about the sources, uses, environmental and health impact of coal, oil and gas. The material may be used for broadcast and as part of a display in the foyer of the station.

Task	Provide publicity materials that **describe**, **explain** and **evaluate** the sourfces and uses of fossil fuels and the impact they have on human health. • **Describe** where coal, oil and gas come from. • **Describe**, **explain** and **evaluate** the environmental impact of the extraction and use of coal, oil and gas and how their use can have an impact on human health. Consider the following when producing your materials: • Extraction o where coal, oil and gas come from, o how they are extracted by surface and underground mining, offshore, onshore drilling and fracking. • Uses – power generation, o as a fuel for transport, cooking, heating. o as a base for the production of other materials o coking coal, carbon fibre, activated carbon, coal tar and its by-products, o crude oil and its by-products, o as a base for feedstock and pharmaceutical products. • Environmental and ecological effects o emission of heat-trapping gases carbon dioxide, methane, water vapour, global warming, ‘greenhouse effect’, rise in sea

	levels. o Risk of earthquakes leakage of fracking fluids and substantial use of water. • Effect on climate o risk of drought, heatwaves, intensified storms • Effect on human health of o toxic air pollutants like mercury, sulfur dioxide, nitrous oxides, lead, arsenic, volatile organic compounds, particulates. Correct scientific terminology must be used and sources must be referenced.
Checklist of evidence required	Publicity materials which: Evaluates and explains the impact and use of fossil fuels on human health and the environment. Describes the sources and uses of coal, oil and natural gas. Describes how the use of fossil fuels impacts on human health and the environment.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria, you must show that you are able to:
A.D1	Evaluate the impact of fossil fuels on human health and the environment
A.M1	Explain how the use of fossil fuels affects human health and the environment
A.P1	Describe the sources and uses of oil, coal and natural gas
A.P2	Describe how the use of fossil fuels impacts human health and the environment
Sources of information to support you with this Assignment	https://ourworldindata.org/fossil-fuels https://www.sciencedaily.com/terms/fossil_fuel.htm https://www.nationalgeographic.com/environment/energy/reference/fossil-fuels/ https://www.eesi.org/topics/fossil-fuels/description https://climatenexus.org/climate-issues/health/the-localized-health-impacts-of-fossil-fuels/
Other assessment materials attached to this Assignment Brief	e.g. work sheets, risk assessments, case study